



people & technology

TECHNICAL DATA SHEET *ATOM PLUS*



GENERAL FEATURES:

Mechanical sweeper with vacuum system for dust control.
Version: Petrol, Electric 24V
With operator in front
Refuse container in rear position
<i>Wheels: N°1 Front steering and drive, n° 2 rear (drive for electric version)</i>
<i>Working areas: Cleaning of medium, indoor and outdoor, private and public</i>

VERSION		Atom H Plus	Atom E plus
		Petrol	Electric

PERFORMANCES

Max. cleaning capacity (with 2 side brushes)	m ² /h		6875	6875
<i>Cleaning width:</i>				
Main brush	mm		700	700
Main brush + Right side brush	mm		950	950
Main brush + 2 side brushes	mm		1250	1250
Max. transfer speed	km/h		6,5	6,5
Max. reverse speed	km/h		4	3
Max. working speed	km/h		5,5	5,5
Max. working gradient	%		15	15
Max. gradient	%		18	18

VERSION		Atom H Plus Petrol	Atom E plus Electric
----------------	--	------------------------------	--------------------------------

NOISE LEVEL (EN 60704)

Sound pressure level in operating position	dB(A)	78	71
--	-------	----	----

VIBRATION (ISO 2631/97)

Frequency weighted acceleration value	m/s ²	< 0,5	< 0,5
---------------------------------------	------------------	-------	-------

BRUSHES

Main brush, length	mm	700	700
Side brush, diameter	mm	390	390

DUST VACUUM SYSTEM

Fan	n°/type	1/centrifugal	1/centrifugal
Fan, diameter	mm	230	230
Vacuum cut-off	type	mechanical	mechanical

DUST FILTERING SYSTEM

Filtering system	n°/type	6/cartridges	6/cartridges
Filtering surface	m ²	6	6
Filtering material	type	cellulose	cellulose
Dust filtering shaker with automatic closing	n°/type	1/electric 12V	1/electric 12V

REFUSE CONTAINER

Refuse container capacity	lt	95	95
Refuse container emptying	type	manual	manual

STEERING

Steering wheel		on front wheel	on front wheel
Minimum "U"-turn space	mm	2600	2600

ELECTRIC MOTORS

Drive motor			
Make			Amer
Model	type		MRP9D
Nominal power	rpm n°/V/W		140 1/24/400
Brushes rotation motors			
Make			AMER
Model	type		MP80
Nominal power	rpm n°/V/W		2800 1/24/750
Total power	W		1150

VERSION		Atom H Plus Petrol	Atom E plus Electric
----------------	--	-------------------------------------	---------------------------------------

BATTERY

Quantity and capacity of the battery	n°-V-Ah			2/12/140
Battery dimension (length-width-height)	mm			342X176X288
Battery water	type	distilled water		distilled water
Autonomy	h			2. 30'
<i>(Caution! Autonomy depends on the type of battery and the use of the machine)</i>				

ENGINE

Make			HONDA	
Model	type		GC 160	
Cylinders	n°		1	
Bore	mm		64	
Stroke	mm		50	
Displacement	cm ³		160	
Max. Power	rpm		3600	
	kw/HP		3,7 / 5	
Max.setting power	rpm		2900	
	kw/HP		3,2 / 4,4	
Fuel consumption	lt/h		1,6	
Cooling			air	
Oil sump capacity	lt		0,6	
Supply with Diesel Gamma Sae 30				
Fuel tank capacity	lt		2	
Supply with			unleaded petrol	
Autonomy	h		1. 15'	

DRIVE

Drive on wheel	pos.		front	front
----------------	------	--	-------	-------

TRANSMISSION

Transmission system	type		hydraulic	electric
---------------------	------	--	-----------	----------

WHEELS

Front	Ømm		252	248
Rear	Ømm		252	252

BRAKES

Service brake	type		mechanical	mechanical
Parking brake	type		mechanical	mechanical

VERSION		Atom H Plus Petrol	Atom E plus Electric
----------------	--	-------------------------------	---------------------------------

SUSPENSION

Front suspension	type		rigid	rigid
Rear suspension	type		rigid	rigid

DIMENSIONS

Machine dimensions (length-width-height) without brushes	mm		1395x1010x1140	1395x1010x1140
Packing dimensions (length-width-height)	mm		-	-

WEIGHT

Machine weight in working condition without operator	kg		262	225 battery excluded
Battery weight	kg			75

INSTRUMENTS

Battery warning light				x
-----------------------	--	--	--	---

STANDARD EQUIPMENT

Engine/Electric motor			x	x
Service brake			mechanical	mechanical
Parking brake			mechanical	mechanical
Main brush driving control			mechanical	mechanical
Side brushes driving control			mechanical	mechanical
Main brush lifting			mechanical	mechanical
Side brushes lifting			mechanical	mechanical
Filter shaker			electric	electric
Vacuum cut-off			mechanical	mechanical
Flap lifting system			x	x
Flasher			x	x
Horn			x	x
Reverse drive buzzer				x
Cellulose dust filters			x	x

OPTIONALS

Left side brush			x	x
Polyester dust filter			x	x
Reverse drive buzzer			x	